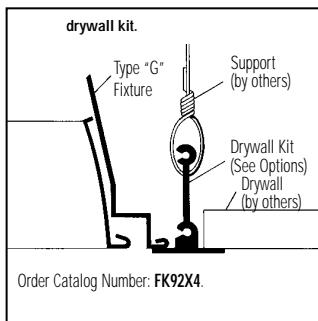
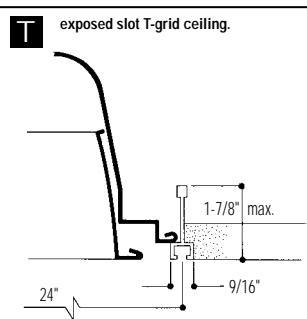
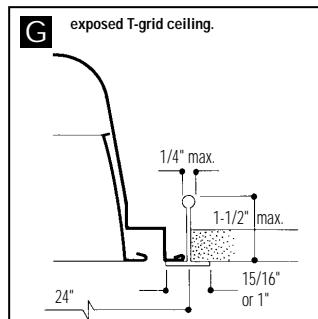
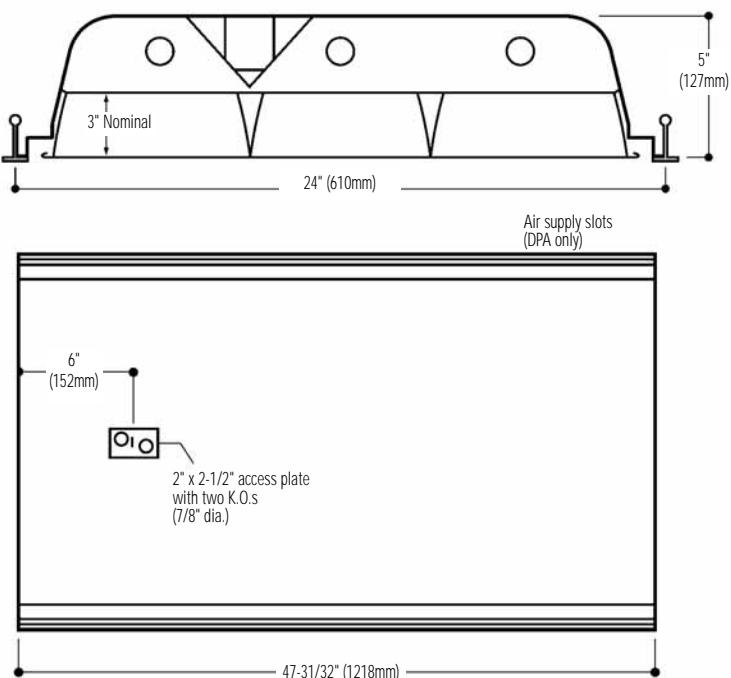


- UL Listed Type IC Recessed Luminaires (Intended for Direct Thermal Insulation Contact).
- Construction provides optimum thermal performance.
- Ballast mounted with thermal heat sink.
- Ideal for fire rated ceilings.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- 5" deep body.
- 77.7% efficient (3 light 18 cell)
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (patent no. 5,072,344).
- Pre-anodized aluminum parabolic louver.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- Louver has protective film dust guard.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Construction to meet NYC Code or Chicago Plenum requirements is available.

**Mounting Methods****Dimensions****Job Information****Type:****Job Name:****Cat. No.:****Lamp(s):****Volts/Ballast:**

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595  
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
We reserve the right to change details of design, materials and finish.  
www.lightolier.com © 2008 a Philips Group

08/08

**SECTION 7/Folio Q80-25**

**2' x 4' Recessed Fluorescent, 3" 12, 18, 24 or 32 Cell Parabolic Louver Static, 2,3 or 4 Lamp, T8**
**Model No. ICS2G12LS232120SO**

LER = FP - 65.5 IW - 61.6 BF - 0.87  
Comparative yearly lighting energy cost per  
1000 lumens = \$3.67

Report Number: ITL49787  
Catalog Number: ICS2G12LS232120SO  
Lamp: (2) F32 T8  
Luminaire: IC 2' X 4' Troffer with 2X6  
Semi-Specular Louver  
Ballast: M3-RN-T81LL-D-120  
Report is based on 2850 Lumens per lamp.  
Efficiency: 80.0%  
CIE Type-Direct-Indirect  
Plane: 0-Deg 90-Deg  
Spacing Criteria: 1.3 1.6  
Shielding Angles: 25 29  
Plane: 0-Deg 90-Deg  
Luminous Length: 45.125 21.000

**COEFFICIENTS OF UTILIZATION -  
ZONAL CAVITY METHOD. EFFECTIVE  
FLOOR CAVITY REFLECTANCE 0.20**

RC	80	50	30	20	10	50	30	10
<b>RW</b>	<b>70</b>	<b>50</b>	<b>30</b>	<b>20</b>	<b>10</b>	<b>50</b>	<b>30</b>	<b>10</b>
1	89	85	83	80	78	76	77	75
2	81	76	71	71	68	64	69	66
3	74	67	61	63	59	55	61	57
4	68	59	53	56	51	47	55	50
5	63	53	46	50	45	40	49	44
6	58	48	41	45	40	35	44	39
7	53	43	36	41	35	31	40	35
8	50	39	32	37	32	28	36	31
9	46	36	29	34	29	25	33	28
10	43	33	27	32	26	22	31	26

**LUMINANCE DATA IN CANDELA/SQ. METER**

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2389.	3075.	4109.
55	2121.	3301.	3469.
65	1060.	1606.	1246.
75	107.	190.	240.
85	19.	19.	19.

**CANDELA DISTRIBUTION**

	0.0	45.0	90.0	FLUX
0	1571	1571	1571	
5	1572	1569	1573	150
15	1511	1547	1579	438
25	1399	1489	1585	689
35	1242	1411	1593	888
45	1033	1330	1777	1057
55	744	1158	1217	939
65	274	415	322	356
75	17	30	38	42
85	1	1	1	2
90	0	0	0	

**TYPICAL V.C.P's**

		Mounting Height			
		Lengthwise Crosswise			
Room Size	Luminaires	Luminaires	0 Deg Plane	90 Deg Plane	
8.5	10	13	16	8.5	10
30x30	86	81	75	73	84
40x40	86	85	80	74	84
60x30	86	84	79	75	84
60x60	86	85	84	78	84
100x100	86	85	84	81	84

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1277	22.4	28.0
0- 40	2165	38.0	47.5
0- 60	4161	73.0	91.2
0- 90	4561	80.0	100.0
90-180	0	0.0	0.0
0-180	4561	80.0	100.0

**Model No. ICS2G18LS33212003**

LER = FP - 68.8 IW - 85.8 BF - 0.89  
Comparative yearly lighting energy cost per  
1000 lumens = \$3.49

Report Number: ITL49767

Catalog Number: ICS2G18LS33212003

Lamp: (3) F32 T8

Luminaire: IC 2' X 4' Troffer with 3X6

Semi-Specular Louver

Ballast: M3-RN-T81LL-120

Report is based on 2850 Lumens per lamp.

Efficiency: 77.6%

CIE Type-Direct-Indirect

Plane: 0-Deg 90-Deg

Spacing Criteria: 1.2 1.6

Shielding Angles: 18 38

Plane: 0-Deg 90-Deg

Luminous Length: 45.125 21.000

**CANDELA DISTRIBUTION**

	0.0	45.0	90.0	FLUX
0	2502	2502	2502	
5	2497	2501	2500	239
15	2395	2482	2549	702
25	2213	2422	2674	1128
35	1966	2388	2741	1484
45	1647	2183	2047	1541
55	1202	1300	970	1062
65	483	419	384	444
75	23	25	20	31
85	3	3	3	5
90	0	0	0	

**COEFFICIENTS OF UTILIZATION -  
ZONAL CAVITY METHOD. EFFECTIVE  
FLOOR CAVITY REFLECTANCE 0.20**

RC	80	50	30	20	10	50	30	20
<b>RW</b>	<b>70</b>	<b>50</b>	<b>30</b>	<b>20</b>	<b>10</b>	<b>50</b>	<b>30</b>	<b>20</b>
1	86	83	81	78	76	75	74	
2	80	74	70	67	64	68	65	62
3	73	66	61	63	58	55	51	54
4	67	59	53	56	51	47	54	47
5	62	53	47	51	45	41	49	41
6	57	48	41	46	40	36	45	36
7	53	43	37	42	36	32	41	36
8	50	40	33	38	33	29	37	32
9	46	36	30	35	30	26	34	29
10	43	33	28	32	27	23	32	27

**LUMINANCE DATA IN CANDELA/SQ. METER**

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	3808.	5048.	4733.
55	3427.	3706.	2765.
65	1869.	1621.	1486.
75	145.	158.	126.
85	56.	56.	56.

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% FIXT
0- 30	2068	24.2	31.2
0- 40	3552	41.5	53.5
0- 60	6155	72.0	92.8
0- 90	6634	77.6	100.0
90-180	0	0.0	0.0
0-180	6634	77.6	100.0

**Options/Accessories**

Plaster Frame: Catalog Number: PF24.

Radio Interference Filter: To order one RIF per fixture; SUFFIX: R.

To order one RIF per ballast; SUFFIX: B.

Fusing: Internal fast-blow fusing. SUFFIX A. Internal slow-blow fusing. SUFFIX C.

Electrical Wiring Options: Consult factory.

Drywall Kit: Order Catalog Number: FK92X4. (Request Folio OA30-10 Rev. A).

Chicago Plenum: SUFFIX: C.

**Specifications**

**Performance:** In an installation of 2 lamp 32W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .85. To prevent glare the VCP shall be not less than 75 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 1606 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 72.0%.

**Materials:** Chassis parts are die-formed code gauge cold rolled steel. Housing is ribbed for rigidity with side rails hemmed over and housing ends turned-in for safe handling. Louver is pre-anodized aluminum.

**Specifications (continued)**

**Finish:** Chassis exterior-black baked polyester enamel. Cavity-white baked polyester enamel minimum 86% reflectance. Rust preventative undercoating. Louver-low iridescence semi-specular anodized vertical grain aluminum reflector sheet is standard.

**Electrical:** Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

**Labels:** I.B.E.W. UL and ULC Listed.

This product may have a mercury containing lamp.

Manage in accord with Disposal Laws.

See: [www.lamprecycle.org](http://www.lamprecycle.org)

**Job Information** **Type:**

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595  
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
We reserve the right to change details of design, materials and finish.  
[www.lightolier.com](http://www.lightolier.com) © 2008 a Philips Group

**SECTION 7/Folio Q80-25**

**PHILIPS**